WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 11-Jul-13		
Applic	ant/Owner: Alaska Energy Authority		Sampling Point: SW13_T126_14				
	igator(s): SLI, SCB	ce, hummocks etc.): Hillside					
	relief (concave, convex, none): undulating	% / 5.0 ° Elevation: 714					
	gion : Southcentral Alaska	l at ·	Slope: 62.88470588		Long.: -149.378470295 Datum: NAD83		
		Lat	02.00470300				
	ap Unit Name:		- 1/	<u> </u>	NWI classification: PEM1/SS1B		
	imatic/hydrologic conditions on the site typical for this ti	-		● No ○	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○		
		-	tly disturbed?		ionnal oli cametanece procent.		
Are '	√egetation ☐ , Soil ☐ , or Hydrology ☐	naturally p	problematic?	(If nee	eded, explain any answers in Remarks.)		
SUM	MARY OF FINDINGS - Attach site map show	wing sa	mpling poin	locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes No C)	la	the Com	mind Area		
	Hydric Soil Present? Yes No)	Is the Sampled Area within a Wetland? Yes ● No ○				
	Wetland Hydrology Present? Yes No				otiana i		
Rem	arks: site appears to have been hit by moth infestation	, most of	alder dead. old	der aerials m	nay look like stca, rather than the current stoa		
VEG	ETATION - Use scientific names of plants. Li	ist all sp	ecies in the	plot.			
		Absolute		Indicator	Dominance Test worksheet:		
Tre	ee Stratum_	% Cove		Status	Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC: 2 (A)		
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)		
3.		0			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 66.7% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cover	:0_	_		Total % Cover of: Multiply by:		
Sa	pling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover	:0	OBL Species $0 \times 1 = 0$		
1	Alnus viridis	25	✓	FAC	FACW Species 7 x 2 = 14		
	Sniraea stevenii			FACU	FAC Species 45.2 x 3 = 135.6		
	Betula nana	1		FAC	FACU Species 26.1 x 4 = 104.4		
4.	Salix pulchra			FACW	UPL Species		
5.		0			Column Totals:78.3 (A)254.0 (B)		
6.							
7.		0			Prevalence Index = B/A = 3.244		
8.		0			Hydrophytic Vegetation Indicators:		
9.		0			✓ Dominance Test is > 50%		
10.		0			Prevalence Index is ≤3.0		
	Total Cover				Morphological Adaptations ¹ (Provide supporting data in		
He	rb Stratum 50% of Total Cover:	<u>18</u> 20	% of Total Cove	r: <u>7.2</u>	Remarks or on a separate sheet)		
1.	Chamaenerion angustifolium		-	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Veratrum viride	5	-	FAC	Indicators of hydric soil and wetland hydrology must		
3.	Equisetum sylvaticum		-	FAC	be present, unless disturbed or problematic.		
4.	Equisetum arvense	_	- 📙	FAC	Plot size (radius, or length x width)		
5.	Dryopteris expansa			FACW	% Cover of Wetland Bryophytes		
6. 7.	Rubus chamaemorus Calamagrostis canadensis	10		FACW FAC	(Where applicable)		
. /	Calamagrostis canadensis	0.1		FACU	% Bare Ground		
	Trientalis europaea		_		Total Cover of Bryophytes		
8.	Trientalis europaea Gympocarpium dryopteris			FΔCII			
8. 9.	Gymnocarpium dryopteris	1		FACU FAC	H. danskatta		
8.	Gymnocarpium dryopteris Rumex arcticus	0.2		FAC	Hydrophytic Vegetation		
8. 9.	Gymnocarpium dryopteris	1 0.2 42.3		FAC	Hydrophytic Vegetation Present? Yes No		

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SOIL Sampling Point: SW13_T126_14

JOIL									Samping	Point: 3W13_1120_14	
Profile Descripti	on: (Describe to		eeded to docun	nent the in				ators)			
Depth	<u>Matrix</u>			Redox Features		2					
(inches)	Color (mo		<u>%</u>	Color (n		<u>%</u>	Type ¹	<u>Loc</u> 2	Texture	Remarks	
0-8	2.5Y	4/2	90	7.5YR	3/4	10		PL	Silty Clay Loam		
8-16	5Y	4/1	90	10YR	4/4	10	С	PL	Silty Clay Loam		
						-					
							-				
						-					
¹Type: C=Cor	ncentration. D=	Depletion	. RM=Reduce	ed Matrix	² Location:	PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil I		-,			ors for Pro						
I —	Histel (A1)				ka Color Cha		4		Alaska Gleyed Without Hu	ie 5V or Redder	
	. ,				ka Color Cri ka Alpine sv				Underlying Layer	le 31 of Redder	
Histic Epip					ka Redox W				Other (Explain in Remarks)		
	Sulfide (A4)			∟ Alas	ka Keuux W	101 2.31 11	ue		Caron (Explain in Normania	-,	
	Surface (A12)			³ One i	ndicator of h	nydrophyti	c vegetatio	n, one prim	nary indicator of wetland hy	ydrology,	
Alaska Gle					appropriate					,	
✓ Alaska Red	, ,			4 Give	details of col	or change	in Remark	rs.			
☐ Alaska Gle	yed Pores (A15	5)		GIVE (acturis or cor	or change	, iii itemark				
Restrictive Laye	er (if present):										
Type:									Hydric Soil Present?	P Yes ● No ○	
Depth (inch	nes):										
Remarks:											
Kentaris.											
										ļ	
HYDROLO	GY										
Wetland Hydi	rology Indica	tors:							Secondary Indic	ators (two or more are required)	
Primary Indica	tors (any one i	s sufficient	t)						Water Stain	ned Leaves (B9)	
Surface W	/ater (A1)			☐ In	undation Vis	sible on Ae	erial Imagei	ry (B7)	☐ Drainage Pa	atterns (B10)	
✓ High Wate	High Water Table (A2) Sparsely Vegetated Concave Surface (B8)						ce (B8)	Oxidized Rhizospheres along Living Roots (C3)			
✓ Saturation	Saturation (A3) Marl Deposits (B15)					,	Presence of	Reduced Iron (C4)			
☐ Water Ma	Water Marks (B1) Hydrogen Sulfic				. ,	(C1)		Salt Deposi	ts (C5)		
	Sediment Deposits (B2) Dry-Season Water Table (C2)							Stressed Plants (D1)			
	Drift Deposits (B3) Other (Explain in Remarks)								Position (D2)		
	Algal Mat or Crust (B4)								Shallow Aqu		
	Iron Deposits (B5)								raphic Relief (D4)		
	oil Cracks (B6)								FAC-neutral		
Field Observa										1030 (23)	
Surface Water		Vec (No •	D	epth (inches	١.					
				Di	epui (inches).					
Water Table P		Yes 🕓	No 🔾	De	epth (inches): 7		Wetlar	nd Hydrology Present	t? Yes • No O	
Saturation Pre		Yes 🖲	No O	De	epth (inches): 6					
(includes capi						<u> </u>					
Describe Recor	ded Data (strea	am gauge,	monitor wel	l, aerial p	hotos, previ	ous inspe	ction) if ava	ailable:			
Remarks:											

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